

FEATURES

- Husky 8-spoke diecast aluminum frame
- Low-mass high-efficiency edgewound voice coil
- Rugged laminated coil form
- Heavy-duty curvilinear cone
- Fatigue-resistant cone suspension
- Vented coil and magnet structure
- Heat radiating back cover

DESCRIPTION

Speakers used with amplified instruments are subjected to the severest possible operational and handling conditions. Even so, failure of a speaker in live performance is intolerable. The SRO/15L musical instrument speaker combines reliability with high efficiency. The powerful sixteen-pound magnetic structure combined with the edgewound aluminum voice coil results in efficiency unmatched in other so-called "high power" speakers. In fact, the SRO/15L produces more *acoustic* power at 100-watts input than most "high power" speakers at 200 watts input.

What about reliability? Look at all the goodies: super-rigid eight spoke diecast aluminum frame; nonfatiguing cloth cone suspension; heavy duty, improved design curvilinear cone to eliminate breakup and edge-hole effects; high heat resistant laminated coil form; new heat dissipating back cover; and many more techniques to provide performance you can count on.

There's more! The SRO/15L represents flexibility unmatched anywhere. Installed in a correct horn or vented enclosure, it not only provides the deep gut sound required for bass, but a smooth treble that produces startling performance for either lead guitar or P.A. That's having your cake and eating it, too!

Power? Well, we rate the brute at 100-watts continuous sine wave; but what does all this power do for the performer? In a proper vented enclosure the 100 watts is

capable of flexing your eardrums with 120 dB of sound at four feet! Use a properly designed horn load and its capability goes up at least 3 dB overall and up to 10 dB at bass frequencies. The same as doubling your amplifier power. Incidentally, we don't recommend that you stand in such a sound field — permanent ear damage may result!

What's the result of all this? The SRO/15L will turn you on!

SPECIFICATIONS

Nominal Impedance:	8 ohms
DC Resistance:	5½ ohms ± 10%
Power Handling Capacity:	100 watts continuous sine wave
Voice Coil Diameter:	2½" (6.35cm)
Magnet Weight:	4 lbs., 13 oz. (2.2kg) ceramic
Magnetic Structure:	16 lbs. (7.2kg)
EIA Sensitivity Rating:	55 dB
Dimensions:	15-1/8" (38.13cm) dia. x 7" (17.78cm) deep
Frame Mounting:	Eight 9/32" (.71cm) holes equally spaced on 14-9/16" (37cm) circle
Mounting Dimensions,	
Baffle Opening:	13-7/8" (35.25cm) dia.
Mounting Holes:	Four or eight 9/32" (.71cm) holes equally spaced on 14-9/16" (37cm) bolt circle
Net Weight:	21 pounds (9.5kg)
Shipping Weight:	25 pounds (11.3kg)

INSTALLATION

The SRO/1SL may be front- or rear-mounted, although front mounting is preferred because the bolts may be tightened fully. It is *important* that recommended baffle openings and mounting hole locations be followed.

FRONT MOUNTING requires a 13-7/8" diameter cutout and a 14-9/16" bolt circle. Mark baffle opening and screw locations on the blank panel first. Drill the screw holes before cutting the large baffle opening. If $\frac{1}{4}$ -20 screws are used, four screws are sufficient for secure mounting of the speaker. TEENUTS are recommended for simple, secure mounting. If TEENUTS are used, the holes should be 9/32" or .290" (letter L drill).

The large cutout should be slightly beveled from the front of the panel to clear the speaker frame and permit firm seating of the rim on the mounting board. Increasing the diameter by 1/32" all around the front is sufficient. A half-round wood rasp or similar tool is satisfactory for this operation. With the speaker panel in the horizontal position, place the speaker in the mounting hole to make certain that the rim fits flat against the mounting panel.

Apply glue to the flanges of $\frac{1}{4}$ -20 long shank TEENUTS before driving into the rear of the holes.

Sealing of the front-mounted speaker is accomplished with the adhesive-backed foam gasket segments. Strip off protective paper and apply gasket to the rear mounting surface of the speaker rim, making certain that holes in the gasket line up with the mounting holes in the speaker frame.

Length of the $\frac{1}{4}$ -20 screws should be $\frac{1}{2}$ " plus the panel thickness when using TEENUTS. The screws must have fillister heads to seat down in the recess of the speaker frame. Screws should be tightened evenly and securely. Maximum torque possible with a proper size screwdriver should be sufficient.

IMPORTANT! When front mounting, the screw head must fit down into the front gasket cutout. See Figure 2.

REAR MOUNTING requires the same diameter cutout and bolt circle as front mounting. However, the bevel is not required. Other comments regarding the use of TEENUTS apply to rear mounting as well.

Screw length should be $\frac{3}{4}$ " plus panel thickness if using TEENUTS—longer for standard hex nuts. If hex nuts are used, a second nut should be tightened against the first nut to prevent loosening during operation. A lock washer and flat washer are recommended between the screw head and frame. See Figure 3.

Screws should be tightened evenly, but not excessively. Maximum torque possible with a proper size screwdriver should be sufficient. Do not use adhesive-back gasket segments for rear mounting.

If a cabinet is to be constructed from scratch, $\frac{3}{4}$ -inch solid and jointed or marine plywood is recommended. After construction, be certain interior is completely free of metal filings, wood chips, etc.

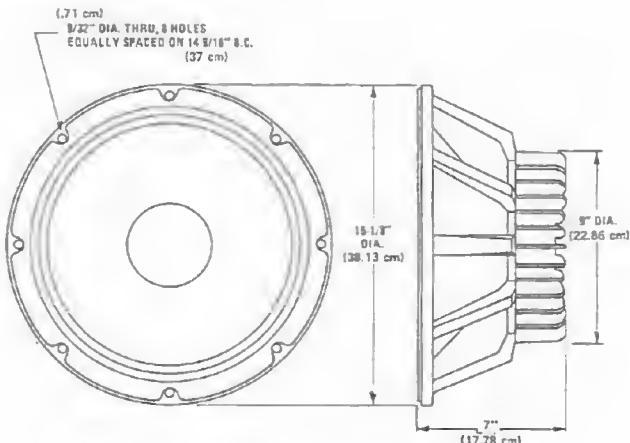


FIGURE 1 — Dimensions

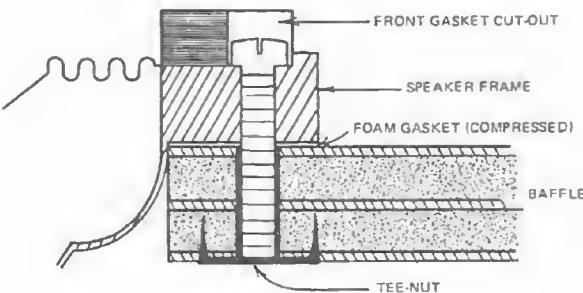


FIGURE 2 — Front Mounting Detail
(Not to scale)

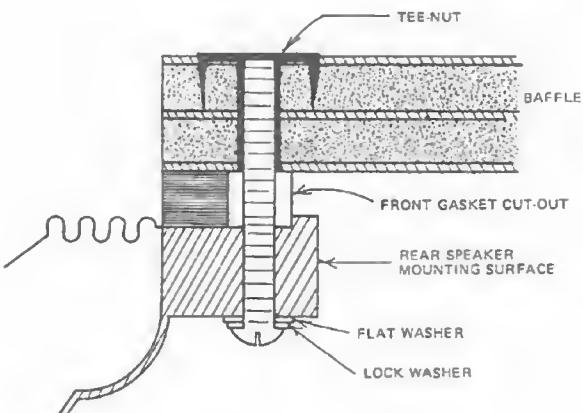


FIGURE 3 — Rear Mounting Detail
(Not to scale)

CONNECTIONS

Use No. 18 or larger stranded wire to connect the two terminals on the loudspeaker to the amplifier output. If a choice of amplifier output impedance is available (4, 8, 16 ohms), a single SRO/15L speaker should be connected to the 8-ohm tap. Two SRO/15L speakers may be connected in parallel as shown in Figure 4. Be sure to connect the red terminals together. If series wiring is desired, wiring and polarity should follow Figure 5. The correct impedance tap for this configuration is 16 ohms.

WARRANTY

5 yrs. HFA

~~Electro-Voice Amplified Instrument Cone Speakers~~ are guaranteed for the life of the speaker against malfunction due to defects in workmanship and materials. If such malfunction occurs, speaker will be repaired or replaced (at our option) without charge for materials or labor if delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this guarantee.

Speakers for warranty repair must be shipped prepaid to Electro-Voice or its authorized service agency, and will be returned prepaid. For locations of E-V service agencies, please write Service Department, Electro-Voice, Inc., 600 Cecil Street, Buchanan, Michigan 49107.

Electro-Voice also maintains complete facilities for non-warranty service.

CUSTOMER SERVICE

SRO/15L speakers are packed to provide maximum protection — well in excess of the shipping requirements of the Interstate Commerce Commission. If shipping damage does occur, contact the carrier immediately, requesting inspection and instructions, or contact the dealer from whom the unit was purchased.

~~Factory service and repair address for this product:~~
~~Kustom Electronics, 1010 West Chestnut, Chanute,~~
~~Kansas 66720~~

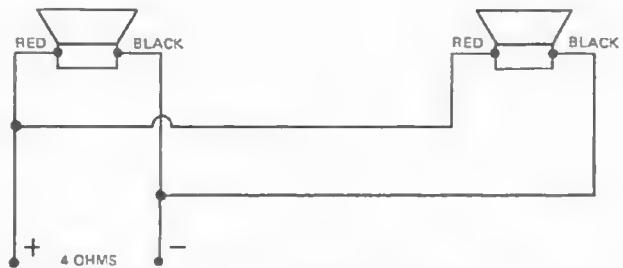


FIGURE 4 — Connection of 2 SRO/15L Speakers in Parallel

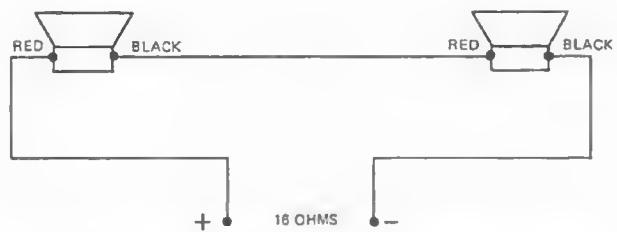


FIGURE 5 — Connection of 2 SRO/15L Speakers in Series